

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A network system for providing a level of operation privileges to a user, the system comprising:

a first computational device comprising a plurality of identification tags and associated rule sets, wherein each identification tag and rule set pair establishes a level of operation privileges to the user; and

a second computational device adapted to program an access device with at least one of the identification tags upon authorization from the first computational device;

a third computational device adapted to program the access device with at least one of the identification tags upon authorization from the first computational device; and

wherein the first, second, and third computational devices are interconnected via the Internet.

2. (Original) The network system of claim 1, wherein the second computational device is further adapted to program an authentication device with a plurality of the identification tags and associated rule sets upon authorization from the first computational device.

3. (Original) The network system of claim 2, wherein the authentication device is adapted to interface with the access device and provide the corresponding level of operation privileges to the user if the identification tag programmed on the access device matches with at least one of the identification tags programmed on the authentication device.

4. (Canceled)

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5. (Currently Amended) The network system of claim 41, wherein the access device is adapted to be periodically re-authenticated by the third computational device upon authorization from the first computational device.

6. (Canceled)

7. (Currently Amended) A network system for providing a level of operation privileges to a user, the system comprising an encoding device adapted to program an access device with at least one identification tag upon authorization by a central authority connected to the network system that is the Internet.

8. (Original) The network system of claim 7, wherein the encoding device is further adapted to program an authentication device with a plurality of identification tags and associated rule sets upon authorization by the central authority.

9. (Original) The network system of claim 8, wherein the central authority is adapted to maintain and administer the plurality of identification tags and associated rule sets.

10. (Original) The network system of claim 8, wherein each identification tag and rule set pair establishes a level of operation privileges for the user.

11. (Original) The network system of claim 10, wherein the authentication device is adapted to provide the corresponding level of operation privileges, if upon establishing a communication link with the access device, the authentication device matches the identification tag stored on the access device with at least one the plurality of identification tags stored on the authentication device.

12. (Canceled)

13. (Currently Amended) A communication network for providing a level of operation privileges to a user, the system comprising a central authority arranged in the network that is the Internet and comprising a plurality of identification tags and associated rule sets, wherein each identification tag and rule set pair establishes a level of operation privileges for the user.

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14. (Original) The network of claim 13, further comprising an access device adapted to store at least one of the plurality of identification tags and an authentication device adapted to store a plurality of the identification tags and associated rule sets.

15. (Original) The network of claim 14, further comprising an encoding device adapted to program the access device with at least one of the plurality of identification tags upon authorization from the central authority.

16. (Currently Amended) The network of claim 14, wherein the encoding device is further adapted to program the authentication device with a plurality of the identification tags and associated rule sets upon authorization from the central authority.

17. (Original) The network of claim 14, wherein the authentication device is adapted to interface with the access device and provide the corresponding level of operation privileges to the user if the identification tag stored on the access device matches with at least one of the plurality of identification tags stored on the authentication device.

18. (Canceled)

19. (Currently Amended) A network system for providing a level of operation privileges to a user, the system comprising:

an access device adapted to store a programmed identification tag, wherein the identification tag is programmed upon authorization by a central authority connected to the network system that is the Internet; and

an authentication device adapted to store a plurality of programmed identification tags and associated rule sets, wherein the plurality of identification tags and associated rule sets are programmed upon authorization by the central authority.

20. (Original) The network system of claim 19, further comprising an encoding device adapted to program the access device and the authentication device upon authorization by the central authority.

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21. (Canceled)

22. (Original) The network system of claim 19, wherein the central authority maintains and administers the plurality of identification tags and associated rule sets, and wherein each of the identification tag and rule set pair establishes a level of operation privileges for the user.

23. (Original) The network system of claim 19, wherein the authentication device is further adapted to interface with the access device and provide the corresponding level of operation privileges to the user if the identification tag stored on the access device matches at least one of the plurality of identification tags stored on the authentication device.

24. (Original) The network system of claim 20, wherein the access device is further adapted to be periodically authenticated by the encoding device upon authorization from the central authority.

25. (Currently Amended) A network system for providing a level of operation privileges to the user of a vehicle, the system comprising:

an access device adapted to store a programmed identification tag, wherein the access device is programmed upon authorization from a central authority connected to the network system; and

a vehicle comprising an authentication device adapted to store a plurality of programmed identification tags and associated rule sets, wherein the authentication device is programmed upon authorization from the central authority;

wherein the central authority maintains and administers the plurality of identification tags and associated rule sets, and wherein each identification tag and rule set pair establishes a level of operation privileges to the user of the vehicle;

means for bypassing the current level of operation privileges as provided by the authentication device and providing a dissimilar level of operation privileges; and

wherein the means for bypassing the current level of operation privileges is adapted to disable future access to the identification tag on the access device by the encoding device and the authentication device.

26. (Canceled)

27. (Original) The network system of claim 25, wherein the network system comprises the Internet.

28. (Original) The network system of claim 25, further comprising an encoding device adapted to program the access device and the authentication device upon authorization from the central authority.

29. (Original) The network system of claim 26, wherein the authentication device is further adapted to interface with the access device and provide the corresponding level of operation privileges to the user if the identification tag programmed on the access device matches at least one of the plurality of identification tags programmed on the authentication device.

30. (Original) The network system of claim 26, wherein the authentication device is coupled to an engine control module to establish the operational parameters for the vehicle corresponding to the level of operation privileges provided by the authentication device.

31. (Original) The network system of claim 26, wherein the authentication device is further coupled to an electronics system to establish the operational parameters for the vehicle corresponding to the level of operation privileges provided by the authentication device.

32. (Original) The network system of claim 26, wherein the authentication device is further coupled to a telematics system to establish the operational parameters for the vehicle corresponding to the level of operation privileges provided by the authentication device.

33. (Original) The network system of claim 28, wherein the access device is further adapted to be periodically re-authenticated by the encoding device upon authorization by the central authority.

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34. (Original) The network system of claim 33, wherein the access device is further adapted to store data associated with operational metrics of the user during the use of the vehicle.

35. (Original) The network system of claim 34, wherein the encoding device is further adapted to re-authenticate the access device by retrieving the data and submitting the data to the central authority.

36. (Original) The network system of claim 35, wherein the central authority is adapted to authorize the re-authentication of the access device if the data does not violate a level of eligibility for re-authentication as established by the associated rule set corresponding to the level of operation privileges provided to the user.

37. - 39. (Canceled)

40. (Currently Amended) A method for providing a plurality of operation privileges to a user, the method comprising:

establishing a plurality of identification tags and associated rule sets, wherein each identification tag and rule set pair corresponds to a level of operation privileges that may be provided to the user; and

programming an access device with an encoding device operably linked via a network to a central authority which administers the plurality of identification tags associated rule sets, wherein said programming occurs upon authorization from the central authority, and wherein the access device is programmed with at least one of the plurality of identification tags;

programming an authentication device with the encoding device, wherein the programming occurs upon authorization from the central authority, and wherein the authentication device is programmed with a plurality of the identification tags and associated rule sets;

establishing a communication link between the access device and the authentication device;

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retrieving the identification tag stored on the access device and comparing it with the plurality of identification tags stored on the authentication device;

retrieving the rule set associated with the identification tag stored on the access device if said comparing results in a match of the identification tag with at least one of the plurality of identification tags;

providing the corresponding level of operation privileges to the user; and

providing a default level of operation privileges to the user if said comparing does not result in a match of the identification tag with at least one of the plurality of identification tags.

41. - 43. (Canceled)

44. (Original) The method of claim 43, further comprising bypassing the corresponding level of operation privileges and providing an alternate level of operation privileges to the user dissimilar to the corresponding level of operation privileges.

45. (Original) The method of claim 44, wherein said providing an alternate level of operation privileges comprises providing complete operation privileges to the user.

46. (Original) The method of claim 44, wherein said bypassing the corresponding level of operation privileges comprises:

receiving a request from the user for bypassing the corresponding level of operation privileges;  
and

disabling future access to the identification tag programmed on the access device.

47. - 51. (Canceled)

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52. (Currently Amended) A computer-readable medium comprising:

first program instructions executable on a first computational device for authenticating an encoding device by a central authority coupled to the encoding device by a network; and

second program instructions executable on the first computational device for authorizing a request sent via the network from the encoding device for programming an access device with an identification tag, said access device useable for accessing a controlled environment;

third program instructions executable on the first computational device for authorizing a request from the encoding device for programming an authentication device with a plurality of identification tags and associated rule sets, wherein each identification tag and rule set pair establishes a level of operation privileges for a user;

fourth program instructions executable on a second computational device for providing the corresponding level of operation privileges to the user if the identification tag programmed in the access device matches with at least one of the plurality of identification tags programmed in the authentication device;

wherein the fourth program instructions are further executable for providing a default level of operation privileges to the user if the identification tag programmed in the access device does not match with at least one of the plurality of identification tags programmed in the authentication device; and

fifth program instructions executable on the second computational device for bypassing the corresponding level of operation privileges and providing a dissimilar level of operation privileges.

53. - 56. (Canceled)

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57. (Currently Amended) The computer-usable readable carrier medium of claim 56~~5~~2, wherein the fifth program instructions are further executable for disabling future access to the identification tag programmed in the access device.

58. (Currently Amended) A computer-readable medium comprising:

first program instructions executable on a first computational device for authenticating an encoding device by a central authority coupled to the encoding device by a network; and

second program instructions executable on the first computational device for authorizing a request sent via the network authenticating a first access device, wherein the first access device comprises a programmed identification tag associated with a level of operational privileges for a user;

wherein the second program instructions are further executable to retrieve data from the access device, wherein the data comprises operational metrics of the user for the corresponding level of operation privileges provided to the user by the first access device;

wherein the second program instructions are further executable for authorizing the authentication request if the data conforms to the level of eligibility for authentication as established for the corresponding level of operation privileges

third program instructions executable on the computational device for authenticating a second access device to the central authority; and

wherein the third program instructions are further executable for authorizing the authentication request if the second access device is configured as a master to the first access device.

59. - 62. (Canceled)

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